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- 1. A method to impart anti-microbial activity to the surface of a polyolefin object which comprises:
  - a. coating the surface with an anti-microbial composition comprising:
    - i. from 0.5 to 5 weight percent of an anti-microbial metal selected from the group consisting of elemental and ionic silver, zinc, copper and cadmium deposited on a solid carrier, and
    - ii. from 95 to 99.5 weight percent of a polyolefin fusible solid selected from the group consisting of a hydrocarbon resin having a viscosity at 177 degrees C. in excess of 20, a polyolefin having a melt index less than 50, and mixtures thereof; and
  - b. heating the surface to a temperature at least 250 degrees F. for sufficient time to fuse the coating into the wall of said object.
- 2. The method of claim 1 wherein said anti-microbial metal is silver.
- 3. The method of claim 1 wherein said carrier solid is an ion-exchange solid and said anti-microbial metal is ion-exchanged onto said carrier solid.
- 4. The method of claim 3 wherein said ion-exchange solid is zeolite.
  - 5. The method of claim 3 wherein said anti-microbial metal includes zinc.

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- 6. The method of claim 1 wherein said polyolefin fusible solid is polyethylene.
- 7. The method of claim 1 wherein said polyolefin fusible solid includes a hydrocarbon resin.
- 8. In a rotational molding method for fabrication of a hollow form plastic product in a rotational molding cycle wherein plastic particles are charged to a rotational mold, the mold is closed, heated to a molding temperature while being rotated about its major and minor axes for a time sufficient to form said molded product and the mold is cooled to a demolding temperature, opened and the molded product is ejected, the improved method for imparting anti-microbial activity to the exterior surface of said molded product which comprises:

applying to a selected area of the interior surface of said rotational mold at substantially the demolding temperature a coating comprising

- i. from 0.5 to 5 weight percent of an anti-microbial metal selected from the group consisting of elemental and ionic silver, zinc, copper and cadmium deposited on a solid carrier, and
- ii. from 95 to 99.5 weight percent of a polyolefin fusible solid selected from the group consisting of a hydrocarbon resin having a viscosity at 177 degrees F. in excess of 20, a polyolefin having a melt index less than

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- 50, and mixtures thereof; and
- b. continuing said rotational molding cycle to obtain a molded, hollow form plastic product having said anti-microbial composition fused into the wall of said product.
- 9. The method of claim 8 wherein said anti-microbial metal is silver.
- 10. The method of claim 8 wherein said carrier solid is an ion-exchange solid and said anti-microbial metal is ion-exchanged onto said carrier solid.
- 11. The method of claim 10 wherein said ion-exchange solid is zeolite.
- 12. The method of claim 10 wherein said anti-microbial metal includes zinc.
- 13. The method of claim 8 wherein said polyolefin fusible solid is polyethylene.
- 14. The method of claim 8 wherein said polyolefin fusible solid includes a hydrocarbon resin.